SoundWave 5.1 PCI
Quick Installation Guide

Introducing the *SoundWave 5.1 PCI*

The *SoundWave 5.1 PCI* transforms your PC into a home theater system with multi-channel surround sound.

Features and Benefits

- MPU-401 compatible MIDI/game port interface*
- Customize Internet audio with the power and surround sound of EAX™ audio technologies
- Conforms to PCI specification, revision 2.2 and PC99 specification
- Supports multi-channel music, games and DVD's on 2, 4, 6 (5.1) speaker systems
- Built-in 16 bit full duplex CODEC with DLS-based wavetable music synthesizer, supports DirectMusic™

  *Gameport supported in XP (32-bit) and Server 2003 (32-bit) only

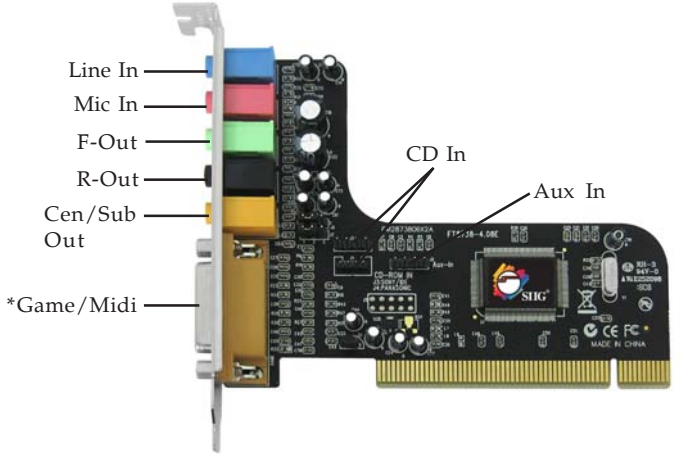
System Requirements

- Pentium® II 366 MHz or equivalent PC with an available PCI slot
- Windows® 2000 / XP (32-bit) / Server 2003 & 2008 (32-/64-bit) / Vista (32-/64-bit)
- DirectX 8.1 or above

Package Contents

- *SoundWave 5.1 PCI*
- Driver CD
- Quick Installation Guide

Layout



*Game/Midi port supported in XP (32-bit) / Server 2003 (32-bit) only

Figure 1: Layout

Note: You can connect to both CD-In and Aux-In at the same time. However, only one CD-In can be connected at one time. Leave the jumpers in the default position. There is no need to change this setting.

Rear Connectors

LINE In:
This connector provides line-in function.

MIC:
This connector provides microphone in function.

Front Out:
This connector provides front source output, you can connect one set of active speakers or headphone.

Rear Out:
This connector provides rear sound source output, you can connect one set of active speakers or headphone.

Center/Subwoofer Out:
This connector provides center and subwoofer (LFE) sound source output, you can connect one set of active speakers.

Game/MIDI:
This is a 15 pin D-sub connector. It can be used with standard MIDI adapters or joysticks. (Not supported in Windows Vista and Windows 64-bit)

CD In (internal):

This connector can be used to attach CD-ROM or DVD-ROM audio cable. There are two different connectors. Select the connector that matches your audio cable.

Aux In (internal):

This connector can be used to connect other audio output devices.

Hardware Installation

It is recommended that you remove any previously installed sound card drivers before installing the *SoundWave 5.1 PCI* to avoid any conflicts. If previously installed drivers are not removed, the *SoundWave 5.1 PCI* may not function properly.

General instructions for installing the card are provided below. Since the design of computer cases and motherboards vary, refer to your computer's reference manual for further information, if needed.

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

1. Turn OFF the power to your computer and any other connected peripheral devices.
2. Unplug the power cord from the computer.
3. Remove your computer's cover.
4. Remove the slot bracket from an available PCI slot.
5. To install the card, carefully align the card's bus connector with the selected PCI slot on the motherboard. Push the board down firmly, but gently, until it is well seated.
6. Replace the slot bracket holding screw to secure the card.
7. Connect one end of the audio cable from your CD-ROM or DVD-player to the CD In on the soundcard.
8. Replace the computer cover and reconnect the power cord.

Driver Installation

Windows 2000/XP/Server 2003

1. Install the board then boot up in Windows.
2. At the **Found New Hardware Wizard**, click **Cancel**.
3. Insert the **Software CD**. Click **Start**, **Run**, type **D:\setup.exe**, then click **OK**. (Change **D:** to match your CD-ROM drive letter)
4. Click **Next** three times.
5. Select **Yes, I want to restart my computer now**, then click **Finish**.

To Verify Windows 2000/XP/Server 2003 Installation

1. Right click **My Computer** and click **Manage**.
2. Select **Device Manager**.
3. Double-click **Sound, video and game controllers**, **C-Media PCI Audio Device** should be displayed.

Windows Vista™

1. Install the board then boot up in Windows.
2. At the **Found New Hardware** window, click **Cancel**.
3. Insert **Software CD**, click **Start**, in the **Start Search** box, type **D:\setup.exe,** press **Enter**, then click **Continue**. (Change **D:** to match your CD-ROM drive letter)
4. Select **Yes, I want to restart my computer now**, then click **Finish**.

To Verify Windows Vista Installation

1. Right click **Computer,** click **Manage**, click **Continue**.
2. Select **Device Manager**.

3. Double-click **Sound, video and game controllers**, **C-Media PCI Audio Device** should be displayed.

Windows Server 2008

1. Install the board then boot up in Windows.
2. At the **Add New Hardware Wizard**, click **Cancel**.
3. Insert **Software CD**, click **Start**, in the **Start Search** box, type **D:\setup.exe,** press **Enter**. (Change **D:** to match your CD-ROM drive letter).
4. Select **Yes, I want to restart my computer now**, then click **Finish**.

To Verify Windows Server 2008 Installation

1. Right click **Computer,** click **Manage**, double click **Diagnostics**, click **Device Manager**.
2. Double click **Sound, video and game controllers**, **C-Media PCI Audio Device** should be displayed.

Uninstalling the Sound Card Driver

Windows 2000/XP/Server 2003

1. Click **Start**, **Settings,** then **Control Panel.**
2. Double click **Add/Remove Programs**.
3. Select **C-Media PCI Audio Device,** then click **Change/Remove** or **Add/Remove** button.
4. Follow the on screen instructions to uninstall the driver.
5. Restart Windows to complete the installation.

Windows Vista

1. Click **Start,** then **Control Panel**.
2. Double click **Uninstall a Program** under **Programs**.

3. Select **C-Media PCI Audio Device**, click **Uninstall/Change**, then click **Continue**.
4. Select **Yes, I want to restart my computer now**, then click **Finish**.

Windows Server 2008

1. Click **Start,** then **Control Panel**.
2. Double click **Programs and Features**.
3. Select **C-Media PCI Audio**, click **Uninstall/Change**.
4. Select **Yes, I want to restart my computer now**, then click **Finish**.

Speaker Configuration

Windows 2000/XP/Server 2003

1. From the main desktop, click **Start**, **Settings**, **Control Panel**.
2. Click **Sounds and Multimedia**, select **Audio** tab.
3. Click **Advanced** under **Sound Playback**, then click the **Speakers** tab.
4. Click the drop down arrow and select your speaker type**.**
5. Click **Apply**, then **OK** to save the settings.

Windows Vista

Make sure to log in as Administrator or an account with administrative privileges.

1. Right click the volume control icon located in the taskbar by the system clock.
2. Click **Playback devices**, select **C-Media PCI Audio Device**, click **Configure**.

3. Follow the on screen instructions to configure your speakers.

Windows Server 2008

Make sure to log in as Administrator or an account with administrative privileges.

1. From the main desktop, click **Start**, **Settings**, **Control Panel**.
2. Double click **Sound**, then click **Yes**.
3. Right click the volume control icon located in the taskbar by the system clock.
4. Click **Playback**, select **C-Media PCI Audio Device**, click **Configure**.
5. Follow the on screen instructions to configure your speakers.

Utilities Software

Xear 3D is an audio setup utility for your soundcard. Xear 3D quick start icon, located in the system tray by the clock, installs automatically during driver installation. In addition to configuring speaker type, sound effects and listening environment, the utility includes mixer and equalizer software. Simply click on the quick start icon to open the audio setup utility.

> **Note**: In *Xear 3D*, please select six speakers under **Analog Output** to get the full 5.1 channel capability.

Blank Page

Blank Page

Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our web site at ***www.siig.com*** and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analysts will promptly respond.

SIIG offers a 5-year manufacturer warranty with this product. Please see our web site for more warranty details. If you encounter any problems with this product, please follow the procedures below.

A) If it is within the store's return policy period, please return the product to the store where you purchased from.

B) If your purchase has passed the store's return policy period, please follow these steps to have the product repaired or replaced.

Step 1: Submit your RMA request.

Go to **www.siig.com**, click **Support**, then **RMA** to submit a request to SIIG RMA. If the product is determined to be defective, an RMA number will be issued.

Step 2: After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All software, cable(s) and any other accessories that came with the original package must be included.
- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.
- You are responsible for the cost of shipping. Ship the product to the following address:

  SIIG, Inc.
  6078 Stewart Avenue
  Fremont, CA 94538-3152, USA
  RMA#: _____

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading computer upgrade manufacturer of I/O connectivity products, including PCI & ISA serial and parallel ports, USB, Serial ATA & UltraATA controllers, FireWire (1394a/b), networking, sound cards, and other accessories. SIIG is the premier one-stop source of upgrades.

SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High-quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, through major distributors, system integrators, and VARs in the Americas and the UK, and through e-commerce sites.

PRODUCT NAME

SoundWave 5.1 PCI

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

SIIG, Inc.
6078 Stewart Avenue
Fremont, CA 94538-3152, USA
Ph: 510-657-8688

SoundWave 5.1 PCI is a trademark of SIIG, Inc. SIIG and the SIIG logo are registered trademarks of SIIG, Inc. Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Pentium is a registered trademark of Intel Corporation. Other names used in this publication are for identification only and may be trademarks of their respective companies.

April, 2009 Copyright © 2009 by SIIG, Inc. All rights reserved.